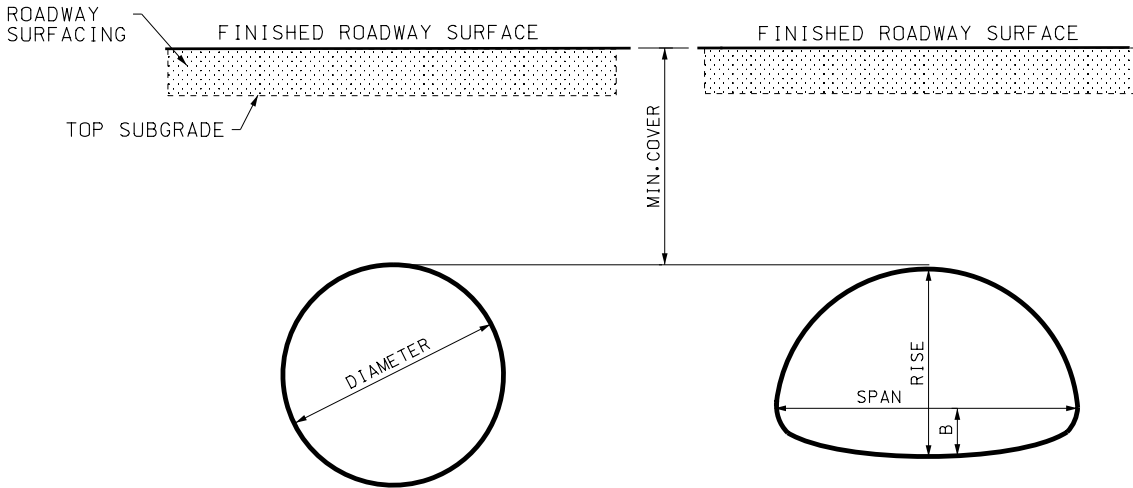


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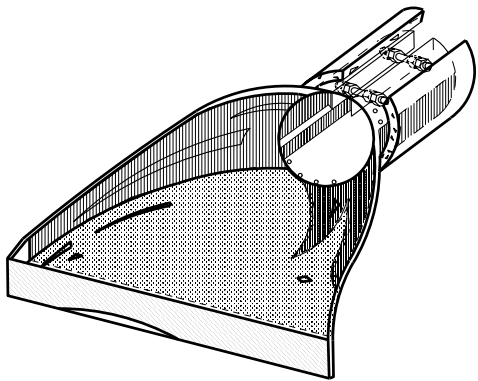
METAL & PLASTIC CULVERTS

METAL PIPE ARCHES



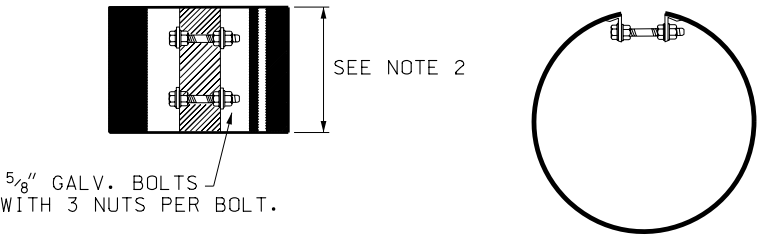
MINIMUM COVER

- A. MEASURE MINIMUM COVER FROM THE TOP OF PIPE CULVERT TO THE ROADWAY SURFACE.
- B. MEASURE MAXIMUM FILL HEIGHT FROM THE TOP OF THE PIPE TO THE PIPE TO THE TOP OF THE PAVEMENT FOR BOTH FLEXIBLE AND RIGID PAVEMENTS.
- C. MINIMUM COVER OVER THE CROWN OF THE PIPE IS ADEQUATE ONLY FOR FINISHED CONSTRUCTION. PROVIDE ADEQUATE COVER TO PROTECT PIPE AND PIPE ARCH FROM DAMAGE DURING CONSTRUCTION..



METAL INSERT

FOR CONNECTING CONCRETE PIPE OR CORRUGATED POLYETHYLENE PIPE TO METAL END SECTION.

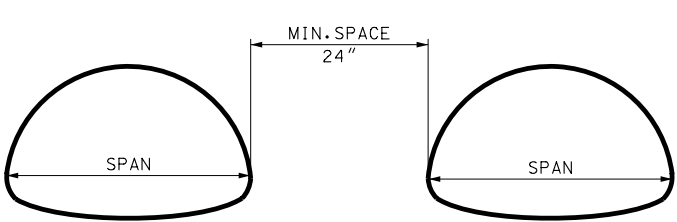


NOTES: METAL INSERTS

1. FABRICATED END SECTION FROM NON FLAMMABLE MATERIALS.
2. CONNECT METAL END SECTIONS TO CONCRETE PIPES OR PLASTIC PIPES USING METAL INSERTS.
3. FOR PIPE DIAMETERS UP TO AND INCLUDING 60" USE A MINIMUM OF 2 BOLTS WITH A LENGTH OF 12" MINIMUM.
4. FOR PIPE DIAMETERS GREATER THAN 60" USE A MINIMUM OF 3 BOLTS WITH A LENGTH OF 18" MINIMUM.
5. GALVANIZED METAL INSERT AND ALL BOLTS, WASHERS AND RIVETS OR WELDS.
6. USE THE SAME WALL THICKNESS FOR METAL INSERT AND METAL END SECTION.
7. CLEAN AND COAT ALL WELDS WITH APPROVED ZINC RICH COMPOUND AS RECOMMENDED BY THE SHEET MANUFACTURE.

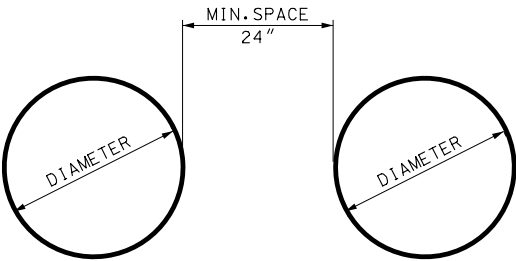
MULTIPLE INSTALLATIONS

PIPE ARCHES



SPAN (inch)	MINIMUM SPACE (inch)
UP TO 36	24
72 TO 86	1/3 SPAN

PIPE CULVERTS



DIAMETER (inch)	MINIMUM SPACE (inch)
UP TO 24	24
48 TO 96	1/2 DIAMETER
96 TO 120	48

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL BY THE UTAH STANDARD DRAWINGS COMMITTEE

DATE FEB.23.2006

DATE FEB.23.2006

DEPUTY DIRECTOR

MISCELLANEOUS
PIPE DETAILS

STANDARD DRAWING TITLE

STD DWG
DG 9

REVISIONS
1. 02/23/06 M.F. CLARIFIED MINIMUM COVER DIMENSIONS.

NO. DATE APPR. REMARKS